HAMPTON VA

City of Hampton

Floatables Control Plan

Introduction

The City of Hampton (City) has developed a plan to address floatables, including a Limited Floatables Assessment, Public Education and Outreach Program and Existing MS4 Program Elements. The City's goal is to gain an understanding of the specific floatables issues associated with the MS4 in order to develop a focused, cost effective and sustainable Floatables Control Plan (FCP). Tasks involved in the FCP include:

- Perform a limited floatables assessment at specific sites identified by the Program Coordinator;
- Assess the composition and relative quantity of floatables captured during the floatables assessment period utilizing the International Coastal Clean Up Ocean Trash Data Form;
- Establish, assess and adaptively manage the FCP based upon findings of the limited floatables assessment which may include an evaluation of water shed management alternatives, e.g., litter control, street sweeping, and stormwater BMPs;
- Augment the City's current MS4 program consisting of street sweeping, catch basin cleaning, repair and/or retrofit, etc.;
- Compile demographic and land use data to be used in determining target outreach strategies;
- Develop a public outreach program to implement watershed management alternatives in the affected areas to address direct deposition (illegal dumping) and street litter;
- Continue to implement End-of-pipe Controls: Events such as International Coastal Cleanup, Regional Cleanup, Hampton's CLEAN THE BAY DAY, BMP Cleanups by volunteer kayakers/canoeists, etc.

Limited Floatables Assessment

The purpose of the limited floatables assessment will be to obtain floatables characterization data for the City's long-term floatables abatement program. Types, composition and potential origins were recorded for each of the sites selected by the Program Coordinator based on a prioritized outfall screening. To capture floatables, the City will develop a schedule for volunteer networks to assess and remove certain floatables at each of the specified locations biannually, downstream, beginning in November, 2016. Sites selected for initial assessments include the following outfalls:

1) St Mary Star of the Sea Outfall – Water Street
2) Indian River Outfall – Kecoughtan Road

The City will use the Ocean Conservancy's Volunteer Ocean Trash Data Form to collect data on debris collected during the outfall screening events (available for download from the

internet at http://www.oceanconservancy.org/our-work/international-coastal-cleanup/data-form.pdf). Initially, results will be reported in tabular format as provided in **Attachment A - Floatable Reporting Categories**. The reporting format may be adjusted as the study progresses to more accurately assess the debris found in the Hampton area.

Maps of the locations are provided in **Attachment B – Sampling Locations**, and an example event flyer is provided in **Attachment C – Sample Event Flyer**.

Sampling Event Activities

Each sampling event will include the following activities:

1. Collected floatables will be assessed, and certain items will be retrieved.
2. Floatables will be sorted into categories, photographed, inventoried and characterized by percent observed volume and/or mass-basis.
3. After inventory and characterization, floatables will be disposed of properly.

Analysis

- A trend analysis will be conducted on the collected materials to determine the effectiveness of the program based on debris observed and/or collected over time.
- A geospatial analysis will be conducted to determine if certain property uses (for example, convenience stores, pharmacies, gasoline stations, andgrocery stores) may be identified as primary sources of any given category of floatable material collected.

Public Education and Outreach Program

One of the most important components of an effective FCP is educational outreach; informing the public about the impact of floatables on water quality impacts. The goals of the public education and outreach program are to accomplish the following:

1. Develop a statement that supports the community values of no littering or illegally dumping into storm drains.
2. Engage stakeholders and potential partners.
3. Educate the public, including the high percentage of transient populations, about what floatables are, the importance of control and how they negatively impact the quality of water. Use appropriate educational tools for each target group. Focus Public awareness campaigns on changing individual behavior by emphasizing community values.
4. Continue to implement community-based education and outreach programs to encourage residents, businesses and community organizations to partner with the City and help control/reduce floatables from entering the waterways. The Hampton Clean

City Commission will continue to work with the Public Works Department to institute outreach programs catered to floatables reduction.

The Public Education and Outreach component will be geared towards street litter prevention to reduce floatables generation through behavioral control. A brochure was developed to provide information to the public on the floatables reduction program titled "City of Hamptons Assessment to Reduce Trash" (CHART) developed by the City (**Attachment D – CHART Brochure**).

Existing MS4 Program Elements

Source Controls currently used as part of the City's MS4 are catch basin and ditch maintenance, street sweeping, and utilization of BMPs (i.e., Flo-Gard inserts) at some facilities. Depending on program trends, additional measures may be implemented.

Catch Basins and Ditch Maintenance

Drainage structures utilized in the City are provided in the Design & Construction Standards Handbook which may be accessed at http://www.hampton.gov/DocumentCenter/View/1906

Catch basin retrofits, repairs and cleanings are identified in the MS4 annual report Section I.B.2.h.

The City of Hampton engages in regular maintenance of ditches, primarily to maintain hydraulic capacity.

Street Cleaning

The City's street sweeping program involves the use of mechanical and vacuum sweepers. The schedule and quantities are reported in the City's MS4 annual report under Section I.B.2.c.

Augmentation

In conjunction with the City's existing MS4 program controls, the City may choose to implement enhanced catch basin controls to help reduce the entry of floatables and sediment into the MS4. A comprehensive floatables control technology evaluation may be undertaken along with development of a preliminary basis of design.

Attachments

Attachment A - Floatable Reporting Categories

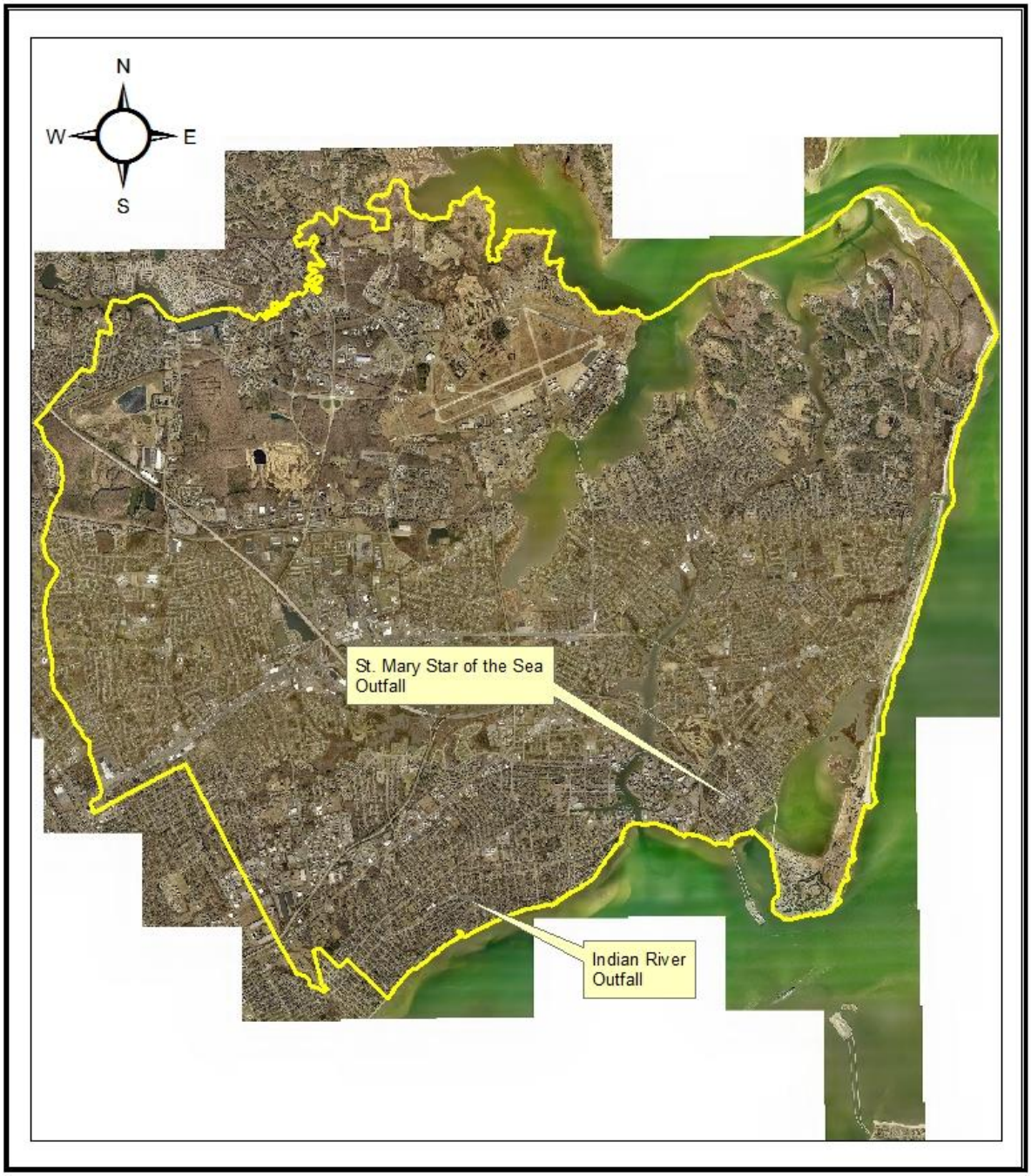
Date: _____

Location: _____
Coordinator: _____

Category	Item	Count
Most Common	Butts	
	Food Wrappers	
	Take out containers	
	Bottle Caps	
	Lids	
	Straws & stirrers	
	Plastic Bottles	
	Glass Bottles	
	Cans	
	Grocery bags	
	Paper bags	
	Paper cups & plates	
	Plastic cups & plates	
	Foam cups & plates	
Fishing Gear	Buoys, pots & traps	
	Nets & pieces of nets	
	Fishing Line	
Packaging Materials	6-pack holders	
	Other plastic / foam packaging	
	Tobacco packaging	
Other – reported separately, along with tiny trash and dead or injured animals.		

Attachment B – Sampling Locations

Attachment B - Sampling Locations



File Path: P:\MS4\MS4 Annual Reporting\Floatables\Attachment B - Sampling Locations .mxd

Attachment C – Sample Event Flyer

PROJECT C.H.A.R.T. –

City of Hampton Assessment to Reduce Trash

Data Collecting and Trash Pick Up at Indian River Outfall for Project C.H.A. R. T.

DATE: **MONDAY, NOVEMBER 21ST, 2016**

TIME: **9:00 AM- 10:30 AM**

LOCATION: **2715 Kecoughtan Road Park at pump station near A & W Mart.**

Must Register: Cris Ausink causink@hampton.gov

Please wear old clothes, long pants, boots or old sturdy shoes Need 3-4 people

Attachment D – CHART Brochure

City of Hampton Assessment for Reduced Trash Program was developed by:

Public Works Stormwater Division

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HAMPTON VA

CHART

Program

What is CHART?

The City of Hampton Assessment to Reduce Trash (CHART) program is a quick and efficient way for citizens to aid in environmental protection. The purpose of the CHART program is to determine how much litter or trash is entering our waterways and to identify ways to help reduce the amount of litter in Hampton. CHART results will be used to assess and develop litter-prevention initiatives such as identifying locations where litter may cause negative impacts to environmental and human health.

How is CHART Conducted?

Community volunteers commit to performing two semi-annual trash assessments, which should occur in the fall and spring. The first CHART will assess existing conditions at locations pre-selected by the CHART coordinator. The second CHART will evaluate changes in the amount and type of litter since CHART was initiated.

Steps involved:

1) The CHART coordinator will identify the study area and will provide map for visual guidance. Latitude and Longitude will be provided for ease of locating during subsequent evaluations. Hampton's GIS can be utilized if no GPS equipment is available.
2) Identify the type and amount of trash found and call out information to the selected recorder. It is recommended to have more than one assessor to verify observations.
3) Recorder shall enter data in the Ocean Trash Data Form provided, ensuring that observations made by the site assessors coincide.
4) CHART coordinator shall evaluate forms to verify accuracy.

Future CHART Clean-up Efforts

After visual inspection, similar to the initial assessment, begin the clean-up. All volunteers should assist in litter clean-up and proper disposal. Submit your results to the City of Hampton, Public Works Stormwater Division or CHART coordinator. Results from this evaluation will be posted online in Hampton's annual report to the DEQ.

SAFETY FIRST

Please review the following tips with volunteers

1) Wear appropriate attire for the weather, full-legged trousers and rubber boots are recommended.
2) Always keep gloves on while collecting litter.
3) An adult supervisor should be assigned for participating children. The supervisor should maintain visual contact with participants at all times.
4) Avoid dehydration, drink plenty of water.
5) If potentially dangerous waste is found, be cautious and report to the Public Works Stormwater Division or CHART coordinator.
6) Do not overfill collection bags or attempt to lift heavy items